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182078

mg

From: Chernyshev, Olga
Sent: Monday, March 13, 2006 4:47 PM
To: STIC-Biotech/ChemLib
Subject: 10/721,297, sequence search request

Please search SEQ ID NO: 1 and SEQ ID NO: 10 in regular databases only.
Thank you very much!

Olga N. Chernyshev, Ph.D.
AU 1649
REM 3C89
2-0870
mail 4C70

RECEIVED
MAR 14 2006
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Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: March 15, 2006, 20:08:12 ; Search time 146.5 Seconds
(without alignments)

33.711 Million cell updates/sec

Title: US-10-721-297-1
Perfect score: 34
Sequence: 1 EYKMDAE 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 216643 seqs, 70528306 residues

Total number of hits satisfying chosen parameters: 216643

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt 05.80;*
1: uniprot_sprot;*
2: uniprot_trembl;*

• Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	34	100.0	57 1 A4_URSMA	029149 u alzheimer
2	34	100.0	58 1 A4_CANFA	028200 c alzheimer
3	34	100.0	58 1 A4_RAB17	028748 o alzheimer
4	34	100.0	58 1 A4_SHEP	028757 o alzheimer
5	34	100.0	59 1 A4_BOVIN	028053 b alzheimer
6	34	100.0	79 2 035463 CRICR	035463 cricetulus
7	34	100.0	113 2 08JH58 CHSE	08jhs8 chelydra se
8	34	100.0	218 2 08BPP15 MOUSE	08bps8 mus musculus
9	34	100.0	384 2 08BPC7 MOUSE	08bpc7 mus musculus
10	34	100.0	534 2 093296 CHICK	093296 gallus gallus
11	34	100.0	569 2 09PVLI1 CHICK	09pvl1 gallus gallus
12	34	100.0	695 2 05R4777 RAT	05r477 pongo pygmaeus
13	34	100.0	695 2 06GRH29 CANFIA	06grh29 canis familiaris
14	34	100.0	695 2 06GJK3 CANFIA	06gjk3 canis familiaris
15	34	100.0	695 2 06GR78 MOUSE	06gr78 mus musculus
16	34	100.0	695 2 09DG18 CHICK	09dg18 gallus gallus
17	34	100.0	714 2 056JK4 CANFIA	056jk4 canis familiaris
18	34	100.0	733 2 06P6Q5 RAT	06p6q5 rattus norvegicus
19	34	100.0	749 2 056JK2 STBECO	056jk2 stenella coerulea
20	34	100.0	751 1 A4_SAT3C	095341 s amyloid beta
21	34	100.0	751 2 06GSC0 HUMAN	06gsc0 homo sapiens
22	34	100.0	751 2 06RH28 CANFIA	06rh28 canis familiaris
23	34	100.0	751 2 056JK5 CANFIA	056jk5 canis familiaris
24	34	100.0	751 2 04R4R8 MACPFA	04r4r8 macaca fasciata
25	34	100.0	751 2 09DG17 CHICK	09dg17 gallus gallus
26	34	100.0	770 1 A4_CAVF6	060495 c amyloid beta
27	34	100.0	770 1 A4_HUMAN	060495 h amyloid beta
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30	34	100.0	770 1 A4_PANTR	056103 m amyloid beta
31	34	100.0	770 1 A4_PIG	079307 s amyloid beta

ALIGNMENTS

RESULT	1	A4_URSMA	STANDARD;	PRT;	57 AA.
RX	NUCLEOTIDE SEQUENCE.				
RA	TISSUE=Brain;				
RT	MEDLINE=92017079; PubMed=1656157; DOI=10.1016/0169-338X(91)90088-F; Johnstone B.M., Chaney M.O., Norris F.H., Pascual R., Little S.P.; "Conservation of the sequence of the Alzheimer's disease amyloid peptide in dog, polar bear and five other mammals by cross-species protease chain reaction analysis"; Brain Res. Mol. Brain Res. 10:299-305 (1991).				
RT	-1- FUNCTION: Functional neuronal receptor which couples to intracellular signaling pathway through the G protein-binding protein (G(O)) (By similarity).				
RT	-1- SUBCELLULAR LOCATION: Type I membrane protein.				
RT	-1- SIMILARITY: Belongs to the APP family.				
CC	This Swiss-Prot entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use as long as its content is in no way modified and this statement is not removed.				
CC	EMBL: X56128; CAA39593.1; - mRNA.				
DR	PIR: B60045; B60055.				
DR	HSSP; P08592; 1NMT.				
DR	InterPro; IPR008155; A4_APP.				
DR	InterPro; IPR001255; Beta-APP.				
DR	PANTHER; PTHR1003:SF6_Beta-APP; 1.				
DR	PRINTS; P03494; Beta-APP; 1.				
DR	PRINTS; P00204; BETAAMYLOID.				
DR	PROSITE; PS03119; A4_EXTRA; PARTIAL.				
DR	PROSITE; PS03320; A4_INTRA; PARTIAL.				
KW	amyloid; Transmembrane.				
FT	CHAIN < 5				
FT	CHAIN 6 > 57				
FT	CHAIN 6 47				
CHAIN	6 45				

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OM protein - protein search, using sw model

Run on: March 15, 2006, 20:07:46 ; Search time 135 Seconds,

(without alignments)

22.783 Million cell updates/sec

Title: US-10-721-297-1

Perfect score: 34
 Sequence: 1 EVKMDAE 7

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Listing first 45 summaries

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 1: _Geneseq_21:/*
 2: _geneseq21980s:/*
 3: _geneseq2000s:/*
 4: _geneseq2001s:/*
 5: _geneseq2002s:/*
 6: _geneseq2003s:/*
 7: _geneseq2003bs:/*
 8: _geneseq2004bs:/*
 9: _geneseq2005s:/*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	34	100.0	7 8	ADJ71532
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7	34	100.0	8 4	ADJ71532
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12	34	100.0	8 8	ADJ71532
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14	34	100.0	8 8	ADJ71532
15	34	100.0	8 8	ADJ71532
16	34	100.0	8 8	ADJ71532
17	34	100.0	8 9	ADJ71532
18	34	100.0	9 2	ADJ71532
19	34	100.0	9 3	ADJ71532
20	34	100.0	9 3	ADJ71532
21	34	100.0	9 5	ADJ71532
22	34	100.0	9 7	ADJ71532
23	34	100.0	9 8	ADJ71532
24	34	100.0	9 8	ADJ71532

Result No.	Score	Query Match Length	DB ID	Description
1	34	100.0	7 8	ADJ71532
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4	34	100.0	8 4	ADJ71532
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20	34	100.0	9 3	ADJ71532
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22	34	100.0	9 7	ADJ71532
23	34	100.0	9 8	ADJ71532
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Result No.	Score	Query Match Length	DB ID	Description
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18	34	100.0	9 2	ADJ71532
19	34	100.0	9 3	ADJ71532
20	34	100.0	9 3	ADJ71532
21	34	100.0	9 5	ADJ71532
22	34	100.0	9 7	ADJ71532
23	34	100.0	9 8	ADJ71532
24	34	100.0	9 8	ADJ71532

Result No.	Score	Query Match Length	DB ID	Description
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2	34	100.0	7 9	ADJ71532
3	34	100.0	8 3	ADJ71532
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23	34	100.0	9 8	ADJ71532
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ALIGNMENTS

Result No.	Score	Query Match Length	DB ID	Description
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3	34	100.0	10 4	ADJ71532
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22	34	100.0	10 4	ADJ71532
23	34	100.0	10 4	ADJ71532
24	34	100.0	10 4	ADJ71532

Sequence 7 AA;

QY	1	EVKNDAE	7	XX	Score 34; DB 8; Length 7;
Best Local Similarity	100.0%	Pred. No.	2e+06	DT	12-FEB-2001 (first entry)
Matches	7; Conservative	Mismatches	0;	DB	Beta-secretase substrate peptide SEQ ID 18.
QY	1	EVKNDAE	7	XX	Beta-secretase; enzyme; amyloid plaque; Alzheimer's disease;
Db	1	EVKNDAE	7	XX	Down's syndrome; amyloid angiopathy; gene therapy; neuroprotective;
RESULT 2				OS	Synthetic.
ID	AER23387	standard; peptide; 7 AA.		XX	W020058479-A1.
XX				PN	
AC	AER23387;			PD	05-OCT-2000.
XX				XX	
DT	28-JUL-2005 (first entry)			PF	23-MAR-2000; 2000WO-US007755.
XX				XX	
DE	Human APP beta-secretase cleavage site peptide #2.			PR	26-MAR-1999; 99US-00277229.
XX				XX	
KW	Screening; beta-amyloid; amyloid precursor protein; neuroprotective;			PA	(AMGE-) AMGEN INC.
KW	nootropic; degeneration; neurological disease; beta-secretase.			XX	
XX				PI	Citron M, Vassar RJ, Bennett BD;
OS	Homo sapiens.			XX	
XX				DR	WPI; 2000-594643/56.
PN	US2005112696-A1.			XX	
XX				PT	Isolated beta-secretase nucleic acids and encoded polypeptides, useful
PD	26-MAY-2005.			XX	for diagnosis and gene therapy of Alzheimer's disease.
XX				PS	
PF	25-NOV-2003; 2003US-00721297.			XX	
PR	25-NOV-2003; 2003US-00721297.			XX	
XX	(UYTE-) UNIV TEXAS SOUTHWESTERN MEDICAL CENT DAL.			CC	This invention relates to 3 nucleotide sequences encoding beta-secretase
PA				CC	proteins. Beta-secretase is an enzyme involved in the production of one
XX				CC	of the components of amyloid plaques involved in Alzheimer's disease. The
PI	Sudhof TC, Li Q;			CC	invention includes an expression vector comprising the nucleotide
XX				CC	sequence, a host cell comprising the expression vector, and a process for
DR	WPI; 2005-403362/41.			CC	producing the protein through culturing the transformed cells. Also
XX				CC	included in the invention are a polypeptide derivative of the beta-
XX				CC	secretase protein, a fusion protein comprising beta-secretase fused to a
PT	Identifying agents modulating cleavage of amyloid beta-precursor protein			CC	heterologous amino acid sequence, and a method for modulating the levels
PT	by beta-secretase, by contacting chimeric molecule comprising cleavage			CC	of beta-secretase polypeptide in a mammal comprising administering the
PT	site with beta-secretase in presence of modulating agent, measuring			CC	poly nucleotide sequence. Beta-secretase nucleotide sequence may be used to
PT	nuclear localization.			CC	map locations of the beta-secretase gene and related genes on chromosomes
XX				CC	and as hybridization probes in diagnostic assays to test for the presence
PS	Claim 2; Page 10; 20pp; English.			CC	of beta-secretase DNA or RNA, such as in Alzheimer's disease, Down's
XX				CC	syndrome, and amyloid angiopathy. The nucleotide sequence may also be
CC	The present invention relates to a method of screening and identifying			CC	used as anti-sense inhibitors of beta-secretase expression, in gene
CC	agents that modulate cleavage of amyloid beta-precursor protein (APP) or			CC	therapy of Alzheimer's disease, and for the identification of compounds
CC	APP-like proteins such as APP1 and APP2 by a beta-secretase. The method			CC	that modulate beta-secretase activity. Antibodies to the beta-secretase
CC	involves contacting a chimeric molecule comprising a transmembrane region			CC	protein may be used for in vitro and in vivo diagnostic purposes to
CC	(TMR) with a gamma- or beta-secretase cleavage site and an APP C-			CC	detect the presence of beta-secretase polypeptide in a body fluid or cell
CC	terminal cytoplasmic tail modified with beta-secretase in presence and			CC	sample. The present sequence represents a beta-secretase substrate
CC	absence of a modulating agent and identifying cleavage by measuring			CC	peptide.
CC	nuclear localization of C-terminal cytoplasmic tail. The invention is			XX	Sequence 8 AA;
CC	useful in the treatment of Alzheimer's disease. The present sequence is			XX	Query Match 100.0%; Score 34; DB 9; Length 8;
CC	the human APP beta-secretase cleavage site peptide.			XX	Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;
SQ	Sequence 7 AA;			QY	1 EVKNDAE
Query Match	100.0%	Score	34	DB	9; Length 7;
Best Local Similarity	100.0%	Pred. No.	2e+06	DT	12-FEB-2001 (first entry)
Matches	7; Conservative	Mismatches	0;	DB	AAU07230 standard; peptide; 8 AA.
QY	1	EVKNDAE	7	XX	AAU07230
Db	1	EVKNDAE	7	AC	AAU07230;
RESULT 3				XX	
AY94772				XX	
ID	AY94772 standard; protein; 8 AA.			DT	24-OCT-2001 (first entry)
XX				XX	Human beta-amyloid protein precursor, APP-beta secretase site peptide #3.
AC	AY94772;			DR	

Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension, **.rup**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.

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OM protein - protein search, using SW model						
Run on:	March 15, 2006, 20:17:57 ; Search time 33.5 Seconds (without alignments)					
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Perfect score:	34					
Sequence:	1 EYKNDAB 7					
Scoring table:	BLOSUM62					
Gapop:	10.0 , Gapext 0.5					
Searches:	57260 seqs, 82675679 residues					
total number of hits satisfying chosen parameters: 572060						
Minimum DB seq length:	0					
Maximum DB seq length:	200000000					
Post-processing:	Minimum Match 0% Maximum Match 100% Listing first 45 summaries					
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	3: /cgn2_6/prodata/1/iaa/H_COMB.pep:*					
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	6: /cgn2_6/prodata/1/iaa/backfiles1.pep:*					
Pred. No.	is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.					
SUMMARIES						
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2	34	100.0	8	US-09-548-367D-67	Sequence	67, A
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4	34	100.0	8	US-09-416-901B-67	Sequence	67, A
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6	34	100.0	8	US-09-794-927A-67	Sequence	67, A
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8	34	100.0	8	US-09-448-377D-67	Sequence	67, A
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12	34	100.0	8	US-09-794-928A-67	Sequence	67, A
13	34	100.0	8	US-09-668-314C-70	Sequence	70, A
14	34	100.0	8	US-09-794-743-67	Sequence	67, A
15	34	100.0	9	US-08-802-981-221	Sequence	221, A
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24	34	100.0	10	US-09-16-901B-64	Sequence	64, A
25	34	100.0	10	US-09-448-376D-64	Sequence	64, A
26	34	100.0	10	US-09-794-927A-64	Sequence	64, A
27	34	100.0	10	US-09-548-373D-64	Sequence	64, A

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RESULT 1
US-09-548-372D-67
; Sequence 67, Application US/09548372D
; Patent No. 6420534
; GENERAL INFORMATION:
; APPLICANT: GURNEY ET AL.
; TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES
; CURRENT APPLICATION NUMBER: US 60/155,493
; CURRENT FILING DATE: 2000-04-12
; PRIORITY NUMBER: US 60/09-23
; PRIORITY APPLICATION NUMBER: US 09/404,133
; PRIORITY FILING DATE: 1999-09-23
; PRIORITY APPLICATION NUMBER: PCT/US99/20881
; PRIORITY FILING DATE: 1999-09-23
; PRIORITY APPLICATION NUMBER: US 60/101,594
; PRIORITY FILING DATE: 1998-09-24
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 67
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Peptide
; US-09-548-372D-67

Query Match          100.0%; Score 34; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4; 6e+05; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
GENERAL INFORMATION:
; APPLICANT: GURNEY ET AL.
; TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR AND USES
; CURRENT APPLICATION NUMBER: US/09548372D
; CURRENT FILING DATE: 2000-04-12
; PRIORITY APPLICATION NUMBER: US 60/155,493

RESULT 2
US-09-548-372D-67
; Sequence 67, Application US/09548367D
; Patent No. 6440698
; GENERAL INFORMATION:
; APPLICANT: GURNEY ET AL.
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 29915/62801
; CURRENT FILING NUMBER: US/09/548,372D
; PRIORITY NUMBER: US 60/155,493
; PRIORITY APPLICATION NUMBER: US 09/404,133
; PRIORITY FILING DATE: 1999-09-23
; PRIORITY APPLICATION NUMBER: PCT/US99/20881
; PRIORITY FILING DATE: 1999-09-23
; PRIORITY APPLICATION NUMBER: US 60/101,594
; PRIORITY FILING DATE: 1998-09-24
; NUMBER OF SEQ ID NOS: 73
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; SEQ ID NO: 67
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Peptide
; US-09-548-372D-67

Query Match          100.0%; Score 34; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 4; 6e+05; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
GENERAL INFORMATION:
; APPLICANT: GURNEY ET AL.
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 29915/62801
; CURRENT APPLICATION NUMBER: US/09/548,372D
; CURRENT FILING DATE: 2000-04-12
; PRIORITY APPLICATION NUMBER: US 60/155,493

```


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OM protein - protein search, using sw model

Run on: March 15, 2006, 20:18:47 ; Search time 120 Seconds

Perfect score: 34 ; (without alignments) 24.373 Million cell updates/sec

Title: US-10-721-297-1

Sequence: 1; EVKMDAE 7

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% ; Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main:*

1: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

2: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

3: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID

Description ;

US-10-625-854-195

Sequence 195, App

Sequence 67, Appl

Post-processing: Minimum Match 0% ; Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main:*

1: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

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3: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID

Description ;

US-10-625-854-195

Sequence 195, App

Sequence 67, Appl

RESULT 1

US-10-625-854-195

Sequence 195, Application US/10625854

Publication No. US20050175626A1

GENERAL INFORMATION:

APPLICANT: de lacourte, Andr

APPLICANT: Sergeant, Nicolas

TITLE OF INVENTION: prevention, treatment and diagnosis of diseases associated with

beta-amyloid formation and/or aggregation

FILE REFERENCE: 11362.0039.1NFUS01 (INN0394--)

CURRENT APPLICATION NUMBER: US/10/625,854

PRIOR APPLICATION NUMBER: European Patent Application No. 02447147.6

PRIOR FILING DATE: 2002-07-24

PRIOR FILING DATE: 2003-07-23

NUMBER OF SEQ ID NOS: 261

SOFTWARE: Patentin version 3.2

; SEQ ID NO 195

; LENGTH: 7

; TYPE: PRT

; ORGANISM: homo sapiens

US-10-625-854-195

Query Match 100.0%; Score 34; DB 5; Length 7;

Best Local Similarity 100.0%; Pred. No. 1.7e+06;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY |||||||

1 EVKMDAE 7

DB |||||||

1 EVKMDAE 7

ALIGNMENTS

Post-processing: Minimum Match 0% ; Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA_Main:*

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3: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

4: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

5: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

6: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

7: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

8: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

11: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

12: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

13: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

14: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

15: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

16: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

17: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

18: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

19: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

20: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

21: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

22: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

23: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

24: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

25: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

26: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

27: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

28: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

29: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

30: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

31: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

32: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

33: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

34: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

35: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

36: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

37: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

38: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

39: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

40: /cgn2_6/ptodata/1/pubseq/US08_PUBCOMB.pep:*

RESULT 2

US-09-794-327-67

Sequence 67, Application US/09794927

PATENT NO. US2001016324A1

GENERAL INFORMATION:

APPLICANT: Gurney, Mark E.

APPLICANT: Bielkowski, Michael J.

APPLICANT: Heinrikson, Robert L.

APPLICANT: Parodi, Luis A.

APPLICANT: Yan, Riqiang

TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR, AND

USES

TITLE OF INVENTION: THEREFOR

FILE REFERENCE: 28341L6280PG

CURRENT APPLICATION NUMBER: US/09/794,927

CURRENT FILING DATE: 2001-02-27

PRIOR APPLICATION NUMBER: 09/416,901

CC (I) has neuroprotective and nootropic activities, and can be used in gene
 CC therapy. (I) can be used for producing preparations of homogeneously
 CC processed BACE that may be used for e.g. studying or treating diseases
 CC such as Alzheimer's disease or Down's Syndrome. The human BACE1 gene is
 CC located on chromosome 11, more specifically to 11q23.2-23.3. The present
 CC sequence represents a human BACE1 autoproteolysis site amino acid
 CC sequence, which is used in the exemplification of the present invention.
 XX SQ Sequence 7 AA;

Query Match 100.0%; Score 34; DB 8; Length 7;

Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 EVNLDAE 7

Db 1 EVNLDAE 7

RESULT 3
 AER09785 ID AER09785 standard; peptide; 7 AA.
 XX AC AER09785;
 XX DT 08-SEP-2005 (first entry)
 XX DE Autoproteolysis sequence for engineered BACE1, SEQ ID 21.
 XX KW Protein engineering; Beta secretase; amyloid precursor protein; Alzheimer's disease; Down syndrome; neuroprotective; nootropic; autoproteolytic site.
 XX OS Homo sapiens.
 XX PN WO200500384-A2.
 XX PD 07-JUL-2005.
 XX PF 07-JUL-2004; 2004WO-US021816.
 XX PR 02-D8C-2003; 2003US-00726967.
 XX PA (SUNEB-) SUNESTS PHARM INC.
 XX PI Ballinger M, Randal ML;
 XX DR WPI; 2005-497666/50.
 XX PT New polypeptide having beta site amyloid precursor protein APP-cleaving enzyme (BACE) activity, having a prodomain, and autoproteolysis site and protease domain, for producing preparations of homogeneously processed BACE.
 XX PS Claim 12, SEQ ID NO 21; 71pp; English.
 CC The invention relates to a polypeptide (I) comprising in order from N-terminus to C-terminus, a prodomain (comprising at least six contiguous amino acids of AEB09787), an autoproteolysis site and a protease domain (comprising at least one amino acid sequence chosen from a sequence at least 90% identical to residues 74-207, 241-361 or 309-446 of AER09785), where the polypeptide is capable of being cleaved at the autoproteolysis site to thus release a free protease domain that has beta site amyloid precursor protein (APP)-cleaving enzyme (BACE, beta secretase) activity. Also included are a nucleic acid sequence encoding the polypeptide, a vector for expressing the polypeptide and a host cell expressing the polypeptide. The polypeptide is useful for producing preparations of homogeneously processed BACE, and for cleaving amyloid precursor protein at its beta-secretase site, to liberate Abeta peptide, where the cerebral deposition of Abeta peptide causes Alzheimer's disease and Down's syndrome. The polypeptide comprises a prodomain, an engineered cleavage site and a protease domain. The polypeptide is properly folded and is cleaved at the engineered cleavage site in vitro, to produce homogeneous preparations of purified protease having BACE activity. The present sequence is an autoproteolytic cleavage site which may be engineered into the polypeptide of the invention.
 XX SQ Sequence 7 AA;
 Query Match 100.0%; Score 34; DB 9; Length 7;
 Best Local Similarity 100.0%; Pred. No. 2e+06; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SQ Sequence 7 AA;

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein Search, using sw model

Run on: March 15, 2006, 20:07:46 ; Search time 135 Seconds

Perfect score: US-10-721-297-10
Sequence: 1. EVNLDAE 7

Scoring table: BLOSUM62

Gapov 1.0. , Gapext 0.5

Searched: 2443163 seqs, 439378761 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_GenSeq_21:*

- 1: geneseqp1980s:*
- 2: geneseqp1990s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003s:*
- 7: geneseqp2003s:*
- 8: geneseqp2004s:*
- 9: geneseqp2005s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1
ID ADP83933
XX
XX
AC ADP83933;
XX
DT 23-SEP-2004 (first entry)
XX
DB Human BACE1 autoproteolysis site SEQ ID NO:59.
XX
KW human; beta-site amyloid precursor protein cleaving enzyme 1;
KW beta-site APP cleaving enzyme 1; BACE1; BACE1 isoform A; prodomain;
KW engineered cleavage site; protease domain; neuroprotective; nootropic;
KW gene therapy; Alzheimer's disease; Down's syndrome.
XX
OS Homo sapiens.
XX
PN WO2004056962-A2.
XX
PD 08-JUL-2004.
XX
PR 04-DEC-2002; 2002US-0430984P.
XX
(SUNE-) SUNESIS PHARM INC.
XX
PT Ballinger M;
XX
DR WPI; 2004-507703/48.

ALIGNMENTS

Result No. Score Query Match Length DB ID Description

1 34 100.0 7 8 ADP83933 Adp83933 Human BAC

2 34 100.0 7 9 AEA23394 Adp23394 Human APP

3 34 100.0 7 9 AEB07985 Adp07985 Autocprote

4 34 100.0 8 3 AAY4771 Adp4771 Beta-secr

5 34 100.0 8 4 AAE0661 Adp0661 Human asp

6 34 100.0 8 4 AAB05613 Adp05613 Human Asp

7 34 100.0 8 5 ABB78622 Human bet

8 34 100.0 8 6 ABR5159 Human bet-secr

9 34 100.0 8 9 AEA23385 Human APP

10 34 100.0 9 2 AAW02081 Fluorogen

11 34 100.0 9 3 AAB07874 A peptide

12 34 100.0 9 3 AAB07894 Substrate

13 34 100.0 9 4 AAG73297 Protease

14 34 100.0 9 5 ABB06519 Peptide #

15 34 100.0 9 5 ABB05003 Peptide #

16 34 100.0 9 5 ABU0429 Protease

17 34 100.0 9 5 ABU0441 Protease

18 34 100.0 9 5 AAE16663 Oligopept

19 34 100.0 9 5 AAT74837 Synthetic

20 34 100.0 9 5 ABB07598 Synthetic

21 34 100.0 9 5 AAM0897 Oligopept

22 34 100.0 9 6 ABP97975 Synthetic

23 34 100.0 9 6 ABP57515 Different

24 34 100.0 9 6 ABP57084 Synthetic

RESULT 3

H86169 hypothetical protein [imported] - *Arabidopsis thaliana* (mouse-ear cress)
 C;Species: *Arabidopsis thaliana* (mouse-ear cress)
 C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004

R;Thiologis, A.; Ecker, J.R.; Palm, C.J.; Peerspiel, N.A.; Kaul, S.; White, O.; Alonso, C.;Accession: H86169

Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.R.; Creasy, T.H.; Dewar, K.; ansen, N.F.; Hughes, B.; Huizar, L.

Nature 408, 818-820, 2000

A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.

C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marzali, C.;Accession: H86169

Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon, C.;Accession: H86169

Ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A;Title: Sequence and analysis of chromosome 1 of the plant *Arabidopsis*.

A;Reference number: A86141; MUID:21016719; PMID:11130712

A;Accession: H86169

A;Status: preliminary

A;Molecule type: DNA

A;Cross-references: UNIPROT:Q9ZWB1; UNIPARC:UPI00000A06A; GB:AB005172; NID:94204304; PI

C;Genetics: C;Gene: TM0163

A;Map position: 1

Query Match 91.2%; Score 31; DB 2; Length 672;

Best Local Similarity 85.7%; Pred. No. 61; Mismatches 6; Conservative 1; Indels 0; Gaps 0;

Matches 6; Conservat 1; Indels 0; Gaps 0;

Qy 1 EVNLDAE 7

Db 538 EVNLDE 544

RESULT 4

T18555 hypothetical protein B0035.4 - *Caenorhabditis elegans*
 C;Species: *Caenorhabditis elegans*
 C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004

C;Accession: T18655

R;White, S.

submitted to the EMBL Data Library, May 1996

A;Reference number: 219002

A;Status: preliminary; translated from GB/EMBL/DDJB

A;Molecule type: DNA

A;Residues: 1-126 <WTL>

A;Cross-references: UNIPROT:Q17435; UNIPARC:UPI000131727; EMBL:273102; PMID:CAA97410.1;

A;Experimental source: clone B0035

C;Genetics:

A;Gene: C1SP:B0035.4

A;Map position: 4

A;Introns: 29/3; 73/3

C;Superfamily: *Arabidopsis thaliana* hypothetical protein P22013.29

Query Match 88.2%; Score 30; DB 2; Length 126;

Best Local Similarity 71.4%; Pred. No. 16; Mismatches 5; Conservative 2; Indels 0; Gaps 0;

Matches 5; Conservat 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 EVNLDAE 7

Db 119 QINLDAE 125

RESULT 5

A72411 hypothetical protein - *Thermotoga maritima* (strain MSB8)

C;Species: *Thermotoga maritima*

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: A72411

R;Nelson, K.E.; Clayton, R.A.; Gill, S.R.; Gwinn, M.L.; Dodson, R.J.; Haft, D.H.; Hickey

Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillips, C.A.; Richardson, D.; C.M.

Nature 399, 323-329, 1999

A;Title: Evidence for lateral gene transfer between Archaea and Bacteria from genome seq

A;Reference number: A72200; MUID:9287316; PMID:1036071

A;Status: preliminary

A;Molecule type: DNA

A;Cross-references: UNIPROT:Q9WY10; UNIPARC:UPI00000C146F; GB:AB001701; GB:AE000512; NID

C;Genetics: C;Gene: TM0163

A;Map position: 1

Query Match 89.2%; Score 30; DB 2; Length 278;

Best Local Similarity 85.7%; Pred. No. 38; Mismatches 6; Conservative 0; Indels 1; Gaps 0;

Matches 6; Conservat 0; Indels 1; Gaps 0;

Qy 1 EVNLDAE 7

Db 241 EVNLDE 247

RESULT 6

C81672

berine hydroxymethyltransferase TC0716 [imported] - *Chlamydia muridarum* (strain Nigg)

C;Species: *Chlamydia muridarum*, *Chlamydia trachomatis* MoPn

C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004

C;Accession: C01672

R;Read, T.D.; Brunham, R.C.; Shen, C.; Gill, S.R.; Heidelberg, J.F.; White, O.; Hickey, C.; Dodson, R.; Gwinn, M.; Nelson, W.; Deboy, R.; Kolonay, J.; McClarty, G.; Salzberg, C.

Nucleic Acids Res. 28, 1397-1406, 2000

A;Title: Genome Sequences of *Chlamydia trachomatis* MoPn and *Chlamydia pneumoniae* AR39.

A;Reference number: A81500; MUID:20150255; PMID:10684935

A;Accession: C01672

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-497 <TE>T

A;Cross-references: UNIPROT:Q9PJW0; UNIPARC:UPI0000057A25; GB:AB002340; GB:AE002160; NID

A;Experimental source: strain Nigg (MoPn)

C;Genetics: C;Gene: TC0716

A;Superfamily: serine/glycine hydroxymethyltransferase

Query Match 88.2%; Score 30; DB 2; Length 497;

Best Local Similarity 85.7%; Pred. No. 74; Mismatches 6; Conservative 0; Indels 1; Gaps 0;

Matches 6; Conservat 0; Indels 1; Gaps 0;

Qy 1 EVNLDAE 7

Db 202 EVNLDE 208

RESULT 7

H71516

glycine hydroxymethyltransferase (EC 2.1.2.1) - *Chlamydia trachomatis* (serotype D, strai

N;Alternate names: serine hydroxymethyltransferase

C;Species: *Chlamydia trachomatis*

C;Date: 13-Sep-1998 #sequence_revision 13-Sep-1998 #text_change 09-Jul-2004

C;Accession: H71516

R;Stephens, R.S.; Kalman, S.; Lammel, C.J.; Pan, J.; Marathe, R.; Aravind, L.; Mitchell, C.

Science 282, 754-759, 1998

A;Title: Genome sequence of an obligate intracellular pathogen of humans: *Chlamydia trac*

A;Reference number: A71570; MUID:99000809; PMID:9784136

A;Accession: H71516

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-497 <ARN>

A;Cross-references: UNIPROT:OB4439; UNIPARC:UPI00012B85B; GB:AB001316; GB:AE001273; NID

A;Experimental source: serotype D, strain UN-3/Cx

C;Genetics:

A;Gene: gltA

C;Superfamily: serine/glycine hydroxymethyltransferase

Copyright (c) 1993 - 2006 Biocceleration Ltd.	GenCore version 5.1.7					
OM protein - protein search, using sw model						
Run on: March 15, 2006, 20:13:01 ; Search time 24 Seconds (without alignments) 28.063 Million cell updates/sec						
Title: US-10-721-297-10						
Perfect score: 34						
Sequence: EVNLDAE 7						
Scoring table: BLOSUM62						
Gapop 10.0 , Gapext 0.5						
Searched: 283416 seqs, 96216763 residues						
Total number of hits satisfying chosen parameters: 283416						
Minimum DB seq length: 0						
Maximum DB seq length: 200000000						
Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries						
Database : PIR_80;*						
1: pir1;*						
2: pir2;*						
3: pir3;*						
4: pir4;*						
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.						
SUMMARIES						
Result No.	Score	Query	Match	Length	DB ID	Description
1	34	100.0	419	2	D42725	nitrile hydratase
2	31	91.2	368	2	A28825	keratin, type I no
3	31	91.2	672	2	HB6169	hypothetical prote
4	30	88.2	126	2	T18655	hypothetical prote
5	30	88.2	278	2	A24411	hypothetical prote
6	30	88.2	497	2	CB1672	serine hydroxymethyl
7	30	88.2	497	2	H1516	glycine hydroxymethyl
8	30	88.2	802	2	C90326	hypothetical prote
9	29	85.3	282	2	T26112	hypothetical prote
10	29	85.3	289	2	D68795	transcription regu
11	29	85.3	295	2	FB3867	dihydrodipicolinate
12	29	85.3	326	2	AF33087	conserved hypothet
13	29	85.3	340	2	T35558	DNA-directed RNA p
14	29	85.3	394	2	FB9888	alanine racemase h
15	29	85.3	400	2	MF5099	ribosomal protein
16	29	85.3	400	2	D97967	30S ribosomal prot
17	29	85.3	434	2	DB8305	protein R037.4 (li
18	29	85.3	434	2	SP82430	transcription elon
19	29	85.3	442	2	B62633	nitrile hydratase
20	29	85.3	470	2	C75591	threonine synthase
21	29	85.3	408	2	B96658	hypothetical prote
22	29	85.3	550	2	AD0494	olopeptide trans
23	29	85.3	619	1	JH0776	hydrogenase (EC 1.
24	29	85.3	712	2	H97555	DNA grasse subunit
25	29	85.3	712	2	D64062	DNA grasse chain b
26	29	85.3	743	2	T22517	GTP diphosphokinase
27	29	85.3	929	2	EVNLDAE	hypothetical prote
28	29	85.3	1331	2	HB62211	sensory box sensor
29	29	85.3	161	1	G64814	molybdenum cofactor
ALIGNMENTS						
Qy	1	EVNLDAE	7			
Db	219	QVNLDAE	225			

TITLE OF INVENTION: Activity in Biological Samples and Methods of Use Thereof
 NUMBER OF SEQUENCES: 231
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #11.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/802,981
 FILING DATE: 20-FEB-1997
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Hunter, Tom
 REGISTRATION NUMBER: 38,498
 REFERENCE/DOCKET NUMBER: 016865-000300US
 TELECOMMUNICATION INFORMATION:
 TELEFAX: (415) 576-0200
 INFORMATION FOR SEQ ID NO: 219:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 S-08-802-981-219

RESULT 3
 Sequence 52, Application US/09724566A
 Patent No. 6627739
 GENERAL INFORMATION:
 APPLICANT: Anderson, John P.
 APPLICANT: Anderson, John P.
 APPLICANT: Basi, Guribal
 APPLICANT: Doane, Minh Tam
 APPLICANT: Frigon, Varghese
 APPLICANT: Power, Michael
 APPLICANT: Sinha, Sukanto
 APPLICANT: Tatsuno, Gwen
 APPLICANT: Tung, Jay
 APPLICANT: Wang, Shuwen
 APPLICANT: McConologue, Lisa
 TITLE OF INVENTION: Beta-Secretase Enzyme Compositions and
 TITLE OF INVENTION: Methods
 FILE REFERENCE: 228-US-NEWC2
 CURRENT APPLICATION NUMBER: US/09/724,566A
 PRIORITY APPLICATION NUMBER: 60/119,571
 PRIORITY FILING DATE: 2000-02-10
 PRIORITY FILING DATE: 2000-11-28
 PRIORITY FILING DATE: 1999-06-15
 PRIORITY FILING DATE: 1999-06-15
 NUMBER OF SEQ ID NOS: 104
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 83
 LENGTH: 9
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: APP fragment P5-P4/wt
 US-09-724-566A-83

RESULT 5
 US-09-471-669A-52
 Sequence 52, Application US/09471669A
 Patent No. 6830918
 GENERAL INFORMATION:
 APPLICANT: Anderson, John P.
 APPLICANT: Basi, Guribal
 APPLICANT: Doane, Minh Tam
 APPLICANT: Frigon, Varghese
 APPLICANT: Power, Michael

RESULT 4
 US-09-724-566A-83
 Sequence 83, Application US/09724566A
 Patent No. 6627739
 GENERAL INFORMATION:
 APPLICANT: Anderson, John P.
 APPLICANT: Basi, Guribal
 APPLICANT: Doane, Minh Tam
 APPLICANT: Frigon, Varghese
 APPLICANT: Power, Michael
 APPLICANT: Sinha, Sukanto
 APPLICANT: Tatsuno, Gwen
 APPLICANT: Tung, Jay
 APPLICANT: Wang, Shuwen
 APPLICANT: McConologue, Lisa
 TITLE OF INVENTION: Beta-Secretase Enzyme Compositions and
 TITLE OF INVENTION: Methods
 FILE REFERENCE: 228-US-NEWC2
 CURRENT APPLICATION NUMBER: US/09/724,566A
 PRIORITY APPLICATION NUMBER: 60/119,571
 PRIORITY FILING DATE: 2000-02-10
 PRIORITY FILING DATE: 2000-11-28
 PRIORITY FILING DATE: 1999-06-15
 PRIORITY FILING DATE: 1999-06-15
 NUMBER OF SEQ ID NOS: 104
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 83
 LENGTH: 9
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: APP fragment P5-P4/wt
 US-09-724-566A-83

RESULT 5
 US-09-471-669A-52
 Sequence 52, Application US/09471669A
 Patent No. 6830918
 GENERAL INFORMATION:
 APPLICANT: Anderson, John P.
 APPLICANT: Basi, Guribal
 APPLICANT: Doane, Minh Tam
 APPLICANT: Frigon, Varghese
 APPLICANT: Power, Michael

Query Match Best Local Similarity 100.0%; Pred. No. 4.6e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 7; Synthetic oligopeptide substrate

Query Match Best Local Similarity 100.0%; Pred. No. 4.6e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 7; OTHER INFORMATION: Syntetic oligopeptide substrate


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; PRIOR APPLICATION NUMBER: 6/0/292,591
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: 6/0/316,115
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 264
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 257
; LENGTH: 8
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Beta-Secretase Cleavage Site
; US-10-480-954-257

Query Match          100.0%;  Score 34;  DB 5;  Length 8;
Best Local Similarity 100.0%;  Pred. No. 1.7e+06;  Indels 0;  Gaps 0;
Matches 7;  Conservative 0;  Mismatches 0;  Idents 0
Qy      1 EVNLDAE 7.
Db      1 EVNLDAE 7

RESULT 3
US-10-817-979-71
Sequence 71, Application US/10817979
Publication No. US20050196398A1
GENERAL INFORMATION:
APPLICANT: Gurney, et al
TITLE OF INVENTION: ALZHEIMER'S DISEASE SECRETASE, APP SUBSTRATES THEREFOR, AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: 29915/40065
CURRENT APPLICATION NUMBER: US/10/817,979
CURRENT FILING DATE: 2004-04-05
PRIORITY APPLICATION NUMBER: US 09/668,314
PRIORITY FILING DATE: 2000-09-22
PRIORITY APPLICATION NUMBER: US 60/169,232
PRIORITY FILING DATE: 1999-12-06
PRIORITY APPLICATION NUMBER: US 09/416,901
PRIORITY FILING DATE: 1999-10-13
PRIORITY APPLICATION NUMBER: US 60/155,493
PRIORITY FILING DATE: 1999-09-23
PRIORITY APPLICATION NUMBER: US 09/404,133
PRIORITY FILING DATE: 1999-09-23
PRIORITY APPLICATION NUMBER: PCT/US99/20881
PRIORITY FILING DATE: 1999-09-23
PRIORITY APPLICATION NUMBER: US 60/101,594
PRIORITY FILING DATE: 1998-09-24
NUMBER OF SEQ ID NOS: 84
SOFTWARE: PatentIn version 3.1
SEQ ID NO 71
LENGTH: 8
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic peptide
; US-10-817-979-71

Query Match          100.0%;  Score 34;  DB 5;  Length 8;
Best Local Similarity 100.0%;  Pred. No. 1.7e+06;  Indels 0;  Gaps 0;
Matches 7;  Conservative 0;  Mismatches 0;  Idents 0
Qy      1 EVNLDAE 7.
Db      1 EVNLDAE 7

RESULT 4
US-09-896-874-8
Sequence 8, Application US/09896874
Patent No. US20020016320A1
GENERAL INFORMATION:
APPLICANT: Fang, Lawrence Y.
APPLICANT: Gailunas, Andrea
APPLICANT: Hom, Roy
APPLICANT: Jagodzinska, Barbara
APPLICANT: Varghese, John
APPLICANT: Varghese, Andrea
APPLICANT: Tung, Jay
APPLICANT: Mamo, Shumeye
APPLICANT: Hom, Roy
TITLE OF INVENTION: Methods to Treat Alzheimer's Disease
FILE REFERENCE: 01-1736-D
CURRENT APPLICATION NUMBER: US/09/816,876
CURRENT FILING DATE: 2001-03-23
PRIORITY APPLICATION NUMBER: 60/191,528
PRIORITY FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.2
SEQ ID NO 4
LENGTH: 9
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
; US-09-816-876-4

Query Match          100.0%;  Score 34;  DB 3;  Length 9;
Best Local Similarity 100.0%;  Pred. No. 1.7e+06;  Indels 0;  Gaps 0;
Matches 7;  Conservative 0;  Mismatches 0;  Idents 0
Qy      1 EVNLDAE 7.
Db      2 EVNLDAE 8

RESULT 5
US-09-816-876-4
Sequence 4, Application US/09816876
Publication No. US20020019403A1
GENERAL INFORMATION:
APPLICANT: Hom, Roy
APPLICANT: Mamo, Shumeye
APPLICANT: Tung, Jay
APPLICANT: Varghese, Andrea
APPLICANT: Varghese, John
APPLICANT: Fang, Larry
TITLE OF INVENTION: Methods to Treat Alzheimer's Disease
FILE REFERENCE: 01-1736-D
CURRENT APPLICATION NUMBER: US/09/816,876
CURRENT FILING DATE: 2001-03-23
PRIORITY APPLICATION NUMBER: 60/191,528
PRIORITY FILING DATE: 2000-03-23
NUMBER OF SEQ ID NOS: 5
SOFTWARE: PatentIn version 3.2
SEQ ID NO 4
LENGTH: 9
TYPE: PRT
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: synthetic peptide
; US-09-816-876-4

Query Match          100.0%;  Score 34;  DB 3;  Length 9;
Best Local Similarity 100.0%;  Pred. No. 1.7e+06;  Indels 0;  Gaps 0;
Matches 7;  Conservative 0;  Mismatches 0;  Idents 0
Qy      1 EVNLDAE 7.
Db      2 EVNLDAE 8

RESULT 6
US-09-896-139-8
Sequence 8, Application US/09896139
Patent No. US20020128255A1
GENERAL INFORMATION:
APPLICANT: Beck, James P.
APPLICANT: Fang, Lawrence Y.
APPLICANT: Gailunas, John N.
APPLICANT: Gailunas, Andrea
APPLICANT: Hom, Roy
APPLICANT: Jagodzinska, Barbara

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GenCore version 5.1.7
 Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: March 15, 2006, 20:18:47 ; Search time 120 Seconds

(without alignments) 24.373 Million cell updates/sec

Title: US-10-721-297-10
 Perfect score: 34
 Sequence: 1 EVNLDAE 7

Scoring table: BLOSUM2 Gapext 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications AA Main:*

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3: /cgn2_6/ptodata/1/pubpar/us09_pubcomb.pep:*

4: /cgn2_6/ptodata/1/pubpar/us10_pubcomb.pep:*

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6: /cgn2_6/ptodata/1/pubpar/us11_pubcomb.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Length DB ID Description

Result No.	Score	Query	Length	DB	ID	Description
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2	34	100.0	8	5	US-10-480-954-257	Sequence 257, Appl
3	34	100.0	8	5	US-10-817-979-71	Sequence 71, Appl
4	34	100.0	9	3	US-09-896-874-8	Sequence 874, Appl
5	34	100.0	9	3	US-09-816-876-4	Sequence 816, Appl
6	34	100.0	9	3	US-09-896-139-8	Sequence 896, Appl
7	34	100.0	9	3	US-09-895-843-8	Sequence 895, Appl
8	34	100.0	9	3	US-09-908-943A-113	Sequence 908, Appl
9	34	100.0	9	3	US-09-895-671-8	Sequence 895, Appl
10	34	100.0	9	3	US-09-874-350A-209	Sequence 874, Appl
11	34	100.0	9	4	US-10-192-625-8	Sequence 192, Appl
12	34	100.0	9	4	US-10-192-424-8	Sequence 192, Appl
13	34	100.0	9	4	US-10-183-926A-8	Sequence 183, Appl
14	34	100.0	9	4	US-10-171-343-8	Sequence 171, Appl
15	34	100.0	9	4	US-10-264-707-8	Sequence 264, Appl
16	34	100.0	9	4	US-10-653-119-4	Sequence 653, Appl
17	34	100.0	9	4	US-10-337-075-8	Sequence 337, Appl
18	34	100.0	9	4	US-10-160-777-8	Sequence 160, Appl
19	34	100.0	9	4	US-10-192-543-8	Sequence 192, Appl
20	34	100.0	9	4	US-10-299-739-8	Sequence 299, Appl
21	34	100.0	9	4	US-10-685-898-107	Sequence 685, Appl
22	34	100.0	9	4	US-10-659-959A-9	Sequence 659, Appl
23	34	100.0	9	5	US-10-801-877-113	Sequence 801, Appl
24	34	100.0	9	5	US-10-801-938-113	Sequence 801, Appl
25	34	100.0	9	5	US-10-801-509-113	Sequence 801, Appl
26	34	100.0	9	5	US-10-801-486-113	Sequence 801, Appl
27	34	100.0	9	5	US-10-621-311-1	Sequence 621, Appl

ALIGNMENTS

RESULT 1
 US-10-726-967A-59

Sequence 59, Application US/10726967A
 Publication No. US20050074456A1

GENERAL INFORMATION:

APPLICANT: Ballinger, Marcus^B
 TITLE OF INVENTION: Constructs for Homogenously Processed Preparations of Beta Site

FILE REFERENCE: 2004345-0021
 CURRENT APPLICATION NUMBER: US/10/726, 967A

CURRENT FILING DATE: 2003-12-02

NUMBER OF SEQ ID NOS: 110

SOFTWARE: Patentin version 3.2

SEQ ID NO 59

LENGTH: 7

TYPE: PRT

ORGANISM: Artificial

FEATURE:

OTHER INFORMATION: Engineered BACB1 autoproteolysis site

US-10-726-967A-59

Query Match 100.0%; Score 34; DB 5; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.7e+05;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVNLDAE 7

DB 1 EVNLDAE 7

RESULT 2
 US-10-480-954-257

Sequence 257, Application US/10480954

PUBLICATION NO. US20050032190A1

GENERAL INFORMATION:

APPLICANT: Brady, Stephen F.

APPLICANT: Bruce, James E.

APPLICANT: Chan-Dobson, Elizabeth

APPLICANT: Garbky, Victor

APPLICANT: Li, Yueming

APPLICANT: Sardana, Mohinder

APPLICANT: Shafer, Jules A.

APPLICANT: Tang, Xiaoting

TITLE OF INVENTION: BETA-SECRETASE SUBSTRATES AND USES

FILE REFERENCE: 2004345-0021

CURRENT APPLICATION NUMBER: US/10/480, 954

CURRENT FILING DATE: 2003-11-21

PRIOR APPLICATION NUMBER: PCT/US02/15590

PRIOR FILING DATE: 2002-05-17

APPLICANT: NEITZ, R. JEFFREY
 TITLE OF INVENTION: SUBSTITUTED UREA AND CARBAMATE, PHENACYL-2-HYDROXY-3-DIAMINOALKANE ASPARTYL-PROTEASE INHIBITOR
 FILE REFERENCE: 09511.0005-00000
 CURRENT APPLICATION NUMBER: US/11/075,292
 CURRENT FILING DATE: 2005-03-09
 PRIORITY APPLICATION NUMBER: 60/622,589
 PRIORITY FILING DATE: 2004-10-28
 PRIORITY APPLICATION NUMBER: 60/591,857
 PRIORITY FILING DATE: 2004-07-29
 PRIORITY APPLICATION NUMBER: 60/575,829
 PRIORITY FILING DATE: 2004-06-02
 PRIORITY APPLICATION NUMBER: 60/551,192
 PRIORITY FILING DATE: 2004-03-09
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: Patentin Ver. 3.3
 SEQ ID NO 10
 LENGTH: 9
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: peptide
 US-11-075,292-10
 Query Match 100.0%; Score 34; DB 7; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.3e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 EVNLDAE 7
 Db 2 EVNLDAE 8
 RESULT 3
 US-11-090-520-8
 Sequence 8, Application US/11090520
 Publication No. US20050267199A1
 GENERAL INFORMATION:
 APPLICANT: Hom, Roy
 APPLICANT: Tucker, John
 APPLICANT: John, Varghese
 APPLICANT: Shah, Neerav
 TITLE OF INVENTION: 2-Amino- and 2-Thio- Substituted 1,3-Diaminopropanes
 FILE REFERENCE: 04-244-A
 CURRENT APPLICATION NUMBER: US/11/090,520
 CURRENT FILING DATE: 2005-03-25
 PRIORITY APPLICATION NUMBER: 60/556,461
 PRIORITY FILING DATE: 2004-03-25
 NUMBER OF SEQ ID NOS: 9
 SOFTWARE: Patentin version 3.3
 SEQ ID NO 8
 LENGTH: 9
 TYPE: PRT
 ORGANISM: Artificial sequence
 FEATURE:
 OTHER INFORMATION: synthetic peptide
 US-11-090-520-8
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 Best Local Similarity 100.0%; Pred. No. 1.3e+05; Mismatches 0; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 EVNLDAE 7
 Db 2 EVNLDAE 8
 RESULT 4
 US-11-075-445-10
 Sequence 10, Application US/11075445
 Publication No. US2006014737A1
 GENERAL INFORMATION:
 APPLICANT: JOHN, VARGHESE
 APPLICANT: JOHN, VARGHESE
 APPLICANT: HOM, ROY
 APPLICANT: SEALY, JENNIFER
 APPLICANT: TUCKER, JOHN
 TITLE OF INVENTION: METHODS OF TREATMENT OF AMYLOIDOSIS USING BI-ARYL ASPARTYL PROTEASE INHIBITORS
 FILE REFERENCE: 09511.0006-00000
 CURRENT APPLICATION NUMBER: US/11/075,445
 CURRENT FILING DATE: 2005-03-09
 PRIORITY APPLICATION NUMBER: 60/551,205
 PRIORITY FILING DATE: 2004-03-09
 PRIORITY APPLICATION NUMBER: 60/551,013
 PRIORITY FILING DATE: 2004-03-09
 PRIORITY APPLICATION NUMBER: 60/575,964
 PRIORITY FILING DATE: 2004-06-02
 RESULT 4
 US-11-038-790-10
 Sequence 10, Application US/11038790
 Publication No. US2006014790A1
 GENERAL INFORMATION:

GenCore version 5.1.7
 Copyright (c) 1993 - 2006 Biocceleration Ltd.

OM protein - protein search, using sw model

Run on: March 15, 2006, 20:19:57 ; Search time 15 Seconds
 (without alignments)
 13.357 Million cell updates/sec

Title: US-10-721-297-10

Perfect score: 34

Sequence: 1 EVNLDAE 7

Scoring table: BLOSUM62

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Total number of hits satisfying chosen parameters: 169630

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Post-processing: Minimum Match 0%
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Database : Published Applications AA New:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	34	100.0	9	7 US-11-075-9210	Sequence 10, Appli
3	34	100.0	9	7 US-11-050-520-8	Sequence 8, Appli
4	34	100.0	9	7 US-11-038-790-10	Sequence 10, Appli
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6	34	100.0	9	7 US-11-218-877-8	Sequence 8, Appli
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8	34	100.0	11	6 US-10-348-595-2	Sequence 2, Appli
9	34	100.0	11	6 US-10-348-595-4	Sequence 2, Appli
10	34	100.0	13	7 US-11-075-2520-9	Sequence 3, Appli
11	34	100.0	13	7 US-11-090-2520-1	Sequence 1, Appli
12	34	100.0	13	7 US-11-038-790-3	Sequence 3, Appli
13	34	100.0	13	7 US-11-075-445-3	Sequence 3, Appli
14	34	100.0	13	7 US-11-218-879-1	Sequence 1, Appli
15	34	100.0	23	6 US-10-348-595-7	Sequence 7, Appli
16	34	100.0	30	7 US-11-075-2520-11	Sequence 11, Appli
17	34	100.0	30	7 US-11-090-2520-9	Sequence 9, Appli
18	34	100.0	30	7 US-11-038-790-11	Sequence 11, Appli
19	34	100.0	30	7 US-11-075-445-11	Sequence 11, Appli
20	34	100.0	30	7 US-11-218-879-9	Sequence 9, Appli
21	34	100.0	33	7 US-11-075-2520-8	Sequence 8, Appli
22	34	100.0	33	7 US-11-030-520-6	Sequence 6, Appli
23	34	100.0	33	7 US-11-038-790-8	Sequence 8, Appli
24	34	100.0	33	7 US-11-075-445-8	Sequence 8, Appli
25	34	100.0	33	7 US-11-218-879-6	Sequence 6, Appli

RESULT 1
 US-10-895-861-21
 ; Sequence 21, Application US/10895861
 ; Publication No. US20060019368A1
 ; GENERAL INFORMATION:
 ; APPLICANT: BALTINGER, Marcus L.
 ; TITLE OF INVENTION: CONSTRUCTS FOR HOMOGENOUSLY PROCESSED
 ; PREPARATIONS OF BETA SITE APP-CLEAVING ENZYME
 ; CURRENT APPLICATION NUMBER: US/10/895, 861
 ; CURRENT FILING DATE: 2004-07-20
 ; PRIORITY APPLICATION NUMBER: US 60/430, 984
 ; PRIORITY FILING DATE: 2002-12-04
 ; PRIORITY APPLICATION NUMBER: US 10/726, 967
 ; PRIORITY FILING DATE: 2003-12-02
 ; PRIORITY APPLICATION NUMBER: PCT to be assigned
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 21
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: homo sapiens
 ; US-10-895-861-21
 ; Query Match Similarity 100.0%; Score 34; DB 6; length 7;
 ; Best Local Similarity 100.0%; Pred. No. 1.3e+05;
 ; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ; Qy 1 EVNLDAE 7
 ; Db 1 EVNLDAE 7
 ; RESULT 2
 ; US-11-075-2520-10
 ; Sequence 10, Application US/11075292
 ; Publication No. US20050261273A1
 ; GENERAL INFORMATION:
 ; APPLICANT: JOHN, VARGHESE
 ; APPLICANT: MAILLARD, MICHEL
 ; APPLICANT: TUCKER, JOHN
 ; APPLICANT: AQUINO, JOSE
 ; APPLICANT: HOM, ROY
 ; APPLICANT: TUNG, JAY
 ; APPLICANT: DRESSIN, DARREN
 ; APPLICANT: SHAH, NEERAV